

II. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

A7 1. (Currently Amended) A telecommunication architecture comprising:

a network for carrying subscribers' communications between subscribers terminals;

53. ~~at least one terminal agent~~ a plurality of terminal agents executing on said network ~~that interfaces said network with a terminal,~~ such that for each terminal there is a single uniquely associated terminal agent for managing communications with that terminal according to that terminal's capabilities; and

~~at least one subscriber agent~~ a plurality of subscriber agents executing on said network ~~that belongs to one of said subscribers,~~ such that for each subscriber there is at least one uniquely associated subscriber agent, each said subscriber agent having a terminal identifier for pointing said subscriber agent to one of said terminal agents being configurable to point to at least one of said terminal agents, such that ~~said one of said subscribers~~ a subscriber can establish a communication over said network from a terminal ~~respective to said one of said terminal~~

agents associated with a terminal agent pointed to by that subscriber's subscriber agent.

2. (Currently Amended) A switch for interconnecting a network and a plurality of terminals, the switch comprising:

A 2 ~~at least one subscriber line interface~~ a plurality of subscriber line interfaces for connection to ~~a respective terminal~~ the terminals;

a network interface for connection to a ~~the~~ network;
and

a processing unit controller interconnecting said subscriber line ~~interface~~ interfaces and said network, said ~~processing unit controller~~ being operable to execute a subscriber agent associated with a subscriber and a terminal agent respective to each terminal; a plurality of terminal agents and a plurality of subscriber agents, said subscriber agent for identifying said subscriber to said network and being configurable to point to said terminal agent in order to carry communication between said network and said terminal agent; and, such that for each subscriber there is at least one uniquely associated subscriber agent, each said subscriber agent being configurable to point to at least one of said terminal agents said terminal agent for managing, via said subscriber line interface, communications between said terminal and said processing unit according to said terminal's capabilities such

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that for each terminal connected to a subscriber line interface
there is a single uniquely associated terminal agent for managing
communications with that terminal according to that terminal's
capabilities and

claim 1
2nd line

~~such that a subscriber using said terminal can conduct a~~
~~communication over said network.~~ so that said switch may
interconnect a network connected to said network interface with a
terminal connected to one of said subscriber line interfaces so
as to allow a subscriber whose subscriber agent points to the
terminal agent associated with that terminal to conduct a
communication over the network from that terminal.

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3. (Currently Amended) The switch according to claim
2 wherein said ~~terminal is~~ terminals include a telephone.

4. (Currently Amended) The switch according to claim
2 wherein said ~~terminal is~~ terminals include is a rich-featured
telephone having a graphical display.

5. (Currently Amended) The switch according to claim
2 wherein said ~~terminal is~~ terminals include is a wireless
telephone and said switch is a wireless base station.

6. (Currently Amended) The switch according to claim
2 wherein said ~~terminal is~~ terminals include is a pager.

7. (Currently Amended) The switch according to claim 2 wherein said ~~terminal is~~ terminals include is a personal digital assistant.

A 8. (Currently Amended) The switch according to claim 2 wherein said ~~terminal is~~ terminals include is a voicemail server.

9. (Currently Amended) The switch according to claim 2 wherein said ~~terminal is~~ terminals include is a point-of-purchase terminal.

10. (Currently Amended) The switch according to claim 2 wherein said network ~~is~~ comprises the PSTN.

11. (Currently Amended) The switch according to claim 2 wherein said network ~~is~~ comprises the Internet.

12. (Currently Amended) The switch according to claim 2 wherein each said subscriber agent includes said associated subscriber's name.

13. (Currently Amended) The switch according to claim 2 wherein each said subscriber agent includes a set of calling features belonging to said associated subscriber.

14. (Currently Amended) The switch according to claim 13 wherein said calling features are accessible by said subscriber at any terminal to which said associated subscriber agent points.

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15. (Original) The switch according to claim 13 wherein said calling features include at least one of caller-id, call waiting, speed calling, call privacy, visual call waiting, and call privacy.

16. (Currently Amended) The switch according to claim 13 wherein said calling features ~~includes~~ include call forwarding ~~that~~ , which is implemented by configuring said subscriber agent to point to a desired terminal agent.

17. (Currently Amended) A software structure executable on a switch ~~having a processing unit that interconnects~~ for interconnecting a network and ~~at least one terminal~~ a plurality of terminals, comprising:

~~at least one terminal agent~~ a plurality of terminal agents, such that for each terminal there is a single uniquely

associated terminal agent that manages for managing
communications with ~~a respective one of said terminals that~~
terminal according to its capabilities; and,

A ~~a subscriber agent associated with a subscriber, a~~
plurality of subscriber agents, such that for each subscriber
there is at least one uniquely associated subscriber agent, each
said subscriber agent being configurable to point to at least one
of said terminal agents ~~and operable, when executing on said~~
~~switch,~~ so that ~~said a~~ a subscriber can establish a communication
over said network from a terminal ~~respective to~~ associated with
said terminal agent pointed to by that subscriber's subscriber
agent.

18. (Currently Amended) The software structure
according to claim 17 wherein said ~~terminal is~~ terminals include
a telephone and wherein said communication is a voice telephone
call.

19. (Currently Amended) The software structure
according to claim 17 wherein said ~~terminal is~~ terminals include
a personal computer.

20. (Currently Amended) The software structure
according to claim 17 wherein said ~~terminal is~~ terminals include
a wireless telephone and said switch is a wireless base station.

21. (Currently Amended) The software structure according to claim 17 wherein said ~~terminal is~~ terminals include a pager and wherein said communication includes a paging message.

22. (Currently Amended) The software structure according to claim 17 wherein said ~~terminal is~~ terminals include a personal digital assistant.

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23. (Currently Amended) The software structure according to claim 17 wherein said ~~terminal is~~ terminals include a voicemail server.

24. (Currently Amended) The software structure according to claim 17 wherein said ~~terminal is~~ terminals include a point-of-purchase terminal and wherein said communication includes a purchase authorization.

25. (Currently Amended) The software structure according to claim 17 wherein said network ~~is~~ includes the PSTN and said switch includes a PSTN gateway.

26. (Currently Amended) The software structure according to claim 17 wherein said network ~~is~~ includes the Internet.

27. (Currently Amended) The software structure according to claim 17 wherein each said subscriber agent includes said associated subscriber's name.

A 28. (Currently Amended) The software structure according to claim 17 wherein each said subscriber agent includes a set of calling features belonging to said associated subscriber.

29. (Currently Amended) The software structure according to claim 28 wherein said calling features are accessible by said subscriber at any terminal capable of supporting said features and to which said associated subscriber agent points.

30. (Original) The software structure according to claim 28 wherein said calling features include at least one of caller-id, call waiting, speed calling, call privacy, visual call waiting, and call privacy.

31. (Currently Amended) The software structure according to claim 28 wherein said calling features ~~includes~~ include call forwarding ~~that~~ , which is implemented by pointing said subscriber agent to a desired terminal agent.

32. (Currently Amended) A method for setting up an incoming call to a subscriber comprising the steps of:

receiving a request to establish said call with said subscriber;

~~obtaining a profile of said subscriber;~~

~~selecting a terminal appropriate to said call according to criteria stored in said profile; and,~~

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selecting a terminal agent uniquely associated with a single terminal for managing communications according to said terminal's capabilities and pointed to by a subscriber agent uniquely associated with said subscriber, such selection based upon behaviour criteria with which said subscriber agent is programmed; and

connecting said call to said terminal associated with said selected terminal agent.

33. (Currently Amended) A method of associating a subscriber with a terminal comprising the steps of:

receiving a request from a subscriber to be associated with a terminal;

~~obtaining a profile of a subscriber who submitted said request; and,~~

determining, from an identification of the subscriber and from a single terminal agent uniquely associated with the

terminal, any restrictions on the use of the terminal by the
identified subscriber; and

~~updating said profile to indicate that calls for said~~
~~subscriber are to be directed to said terminal.~~

if the restrictions permit use of the terminal by the subscriber,
then modifying a subscriber agent uniquely associated with the
identified subscriber so that it points to the terminal agent.

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34. (Currently Amended) The method according to claim
32 further comprising the step of:

providing calling features for said subscriber at said
terminal in accordance with calling features listed in said
profile associated subscriber agent.

35. (Currently Amended) A method for setting up an
outgoing call ~~from~~ by a subscriber from a terminal comprising the
steps of:

receiving a request to establish a said call from a
said terminal;

~~obtaining a profile of a subscriber who submitted said~~
~~request; and~~

identifying the call as being made through a terminal
agent that is a single terminal agent uniquely associated with
said terminal for managing communications according to that

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terminal's capabilities and that is pointed by a subscriber agent |
uniquely associated with said subscriber; and

connecting said call so as to provide calling features
for the subscriber at the terminal in accordance with ~~criteria~~
~~listed in said profile~~ subscriber's calling features included in
said subscriber agent that are available at said terminal.

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Claims 36-38 (Cancelled).

39. (Currently Amended) The method according to ~~any of~~
claim 32 wherein said ~~terminal is~~ terminals include a telephone.

40. (Currently Amended) The method according to ~~any of~~
claim 32 wherein said ~~terminal is~~ terminals include a personal
computer.

41. (Currently Amended) The method according to ~~any of~~
claim 32 wherein said ~~terminal is~~ terminals include a wireless
telephone.

42. (Currently Amended) The method according to ~~any of~~
claim 32 wherein said ~~terminal is~~ terminals include a pager.

43. (Currently Amended) The method according to ~~any of~~ claim 32 wherein said ~~terminal is~~ terminals include a personal digital assistant.

44. (Currently Amended) The method according to ~~any of~~ claim 32 wherein said ~~terminal is~~ terminals include a voicemail server.

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45. (Currently Amended) The method according to ~~any of~~ claim 35 wherein said terminal is a point-of-purchase terminal and wherein said communication includes a purchase authorization.

46. (Currently Amended) The method according to ~~any of~~ claim 32 wherein ~~said~~ each subscriber agent includes said associated subscriber's name.

47. (Original) The method according to claim 34 wherein said calling features include at least one of caller-id, call waiting, speed calling, call privacy, visual call waiting, and call privacy.

48. (Currently Amended) The method according to claim 34 wherein said calling features ~~includes~~ include call forwarding.

49. (Currently Amended) The architecture according to claim 1, wherein said ~~subscriber is~~ subscribers include an individual.

50. (Currently Amended) The architecture according to claim 1, wherein said ~~subscriber~~ subscribers include a subscriber which represents a group of persons.

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51. (Currently Amended) The architecture according to claim 50, wherein said group ~~is~~ includes corporation.

52. (Currently Amended) The architecture according to claim 50, wherein said group ~~is~~ includes a technical assistance center.

Claim 53 (Cancelled).

54. (Currently Amended) The method according to claim 32 wherein said ~~subscriber~~ subscribers include a subscriber which represents a group of persons.

55. (Currently Amended) The ~~method~~ architecture according to claim 50 wherein said group ~~is~~ includes a collection of network operators.

56. (Currently Amended) The ~~method~~ architecture according to claim 50 wherein said group ~~is~~ includes a '911' call center.

Claims 57-58 (Cancelled).

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59. (Currently Amended) The architecture according to claim 1, wherein said subscriber agent is identifiable by said associated subscriber's telephone number.

60. (Original) The method according to claim 32 wherein said step of receiving request to establish said call includes the step of providing said subscriber's telephone number.
